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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/789,773	02/27/2004	Gerald S. Maloney	A-67520-5/RMA(469113-47)	1907
32940 7	7590 04/06/2005		EXAMI	NER
DORSEY & WHITNEY LLP			ELEY, TIMOTHY V	
INTELLECTU	IAL PROPERTY DEPA	ARTMENT		
4 EMBARCADERO CENTER			ART UNIT	PAPER NUMBER
SUITE 3400			3724	
SAN FRANCI	SCO, CA 94111		DATE MAIL ED: 04/06/2005	:

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	ED			
Office Action Summary		10/789,773	MALONEY ET AL.				
		Examiner	Art Unit				
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. <u>-</u>	The MAILING DATE of this communication app	Timothy V Eley	3724				
Period f	or Reply		.oot mar and correspondence dadres	~			
THE - Exte afte - If th - If No - Fail Any	MAILING DATE OF THIS COMMUNICATION. MAILING DATE OF THIS COMMUNICATION. Personal of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. Personal of the period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute to reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however ly within the statutory minimu will apply and will expire SIX e, cause the application to be	may a reply be timely filed im of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communicome ABANDONED (35 U.S.C. § 133).	nication.			
Status							
1)[🖂	Responsive to communication(s) filed on 10 Ja	anuarv 2005.					
·		s action is non-final.					
3)□	·—						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
5)⊠ 6)⊠	Claim(s) <u>1-8,10-13,15-18,20 and 21</u> is/are penda) Of the above claim(s) is/are withdray Claim(s) <u>1-3,6-8,10-13,15-18,20 and 21</u> is/are Claim(s) <u>4 and 5</u> is/are rejected. Claim(s) is/are objected to.	wn from considerati					
·	Claim(s) are subject to restriction and/o	or election requireme	ent.				
Applicat	tion Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	cepted or b) object drawing(s) be held in tion is required if the d	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 CFR 1.	• •			
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	ts have been receive ts have been receive ority documents have u (PCT Rule 17.2(a)	ed. ed in Application No e been received in this National Stag)).	ge			
Attachmer							
2) Noti	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	5) 🔲 No	erview Summary (PTO-413) per No(s)/Mail Date stice of Informal Patent Application (PTO-152 her:	2)			

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DETAILED ACTION

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Claim Rejections - 35 USC § 103

- 1. Claims 4 and 5 are rejected under 35 U.S.C. 102(e) as anticipated by Mack or, in the alternative, under 35 U.S.C. 103(a) as obvious over Mack.
 - Mack discloses a polished and/or planarized semiconductor wafer as set forth in claims 4 and 5.
 - Mack discloses that the semiconductor wafer is polished and/or planarized by a method comprising, using a retaining ring having a chamfered transition region between a first surface substantially parallel to the pad and a fourth surface substantially perpendicular to the pad, the transition region presenting a second surface at a first angle relative to the first surface and a third surface at a second angle relative to the fourth surface. See figure 1. The perpendicular surface is the top perpendicular surface on the retaining ring(114). The lower perpendicular surface is part of the transition region, but is considered to be a fifth surface. The second surface is immediately adjacent to the parallel surface and at an angle thereto. The third surface is directly above the lower perpendicular surface(fifth surface) and immediately adjacent to the top perpendicular surface and at an angle thereto.

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 Mack is does not specifically teach that the first and second angles are each 20+4 degrees.

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- The claimed phrases, "a semiconductor wafer polished(planarized) according to the method of claim 1" is being treated as a product by process limitation. As set forth in MPEP 2113, product by process claims are NOT limited to the manipulations of the recited steps, only to the structure implied by the steps. Once a product appearing to be substantially the same or similar is found, a 35 USC 102/103 rejection may be made and the burden is shifted to applicant to show an unobvious difference. See MPEP 2113.
- Thus, even though Mack does not teach the specific first and second angles, it appears that the product in Mack would be the same or similar as that claimed; especially since both applicant's product and the prior art product are semiconductor wafers polished or planarized using a retaining ring having a chamfered outer edge.

Allowable Subject Matter

2. Claims 1-3,5-8,10-13,15-18,20, and 21 are allowed.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy V Eley whose telephone number is 571-272-4506. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan N Shoap can be reached on 571-272-4514. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy V Eley Primary Examiner Art Unit 3724

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